

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-19. (Canceled)

20. (Currently Amended) A signal filtering method ~~for filtering periodic or quasi-periodic signals in a spread spectrum signal~~, comprising:

receiving ~~[[said]]~~ a spread spectrum signal that comprises a transmitted data component and a periodic or quasi-periodic interference component;

digitizing said received spread spectrum signal;

determining linear predictive coefficients and error coefficients corresponding to said digitized spread spectrum signal;

~~discarding said linear predictive coefficients, wherein the linear predictive coefficients are not used to actively filter said spread spectrum signal~~ providing said error coefficients to a synthesis filter; and

recovering, with said synthesis filter, said transmitted data component in said received spread spectrum signal, based on said provided ~~determining error coefficients corresponding to said spread spectrum signal; and not based on said linear predictive coefficients~~ processing said error coefficients to retrieve information contained in the spread spectrum signal.

21. (Currently Amended) The method of Claim 20, wherein determining said linear predictive coefficients and said error coefficients comprises employing a linear predictive coding filter is used to determine said linear predictive coefficients and said error coefficients.

22. (Canceled)

23. (Currently Amended) The method of Claim 20, wherein said spread spectrum signal further comprising the step of filtering said periodic or quasi-periodic ~~signals~~ complies in accordance with IEEE 802.11(b).

24. (Currently Amended) The method of Claim 20, wherein said spread spectrum signal further comprising the step of filtering said periodic or quasi-periodic signals in accordance complies with Bluetooth specifications.

25. (Previously Presented) The method of Claim 20, wherein said spread spectrum signal comprises a CDMA signal.

26-29. (Canceled).

30. (Currently Amended) A method for filtering out periodic or quasi-periodic interference from a spread spectrum signal that comprises a transmitted data component and a periodic or quasi-periodic interference component, the method ~~signals in a spread spectrum signal,~~ comprising:

receiving said spread spectrum signal;

digitizing said received spread spectrum signal;

using a linear predictive coding filter having a gradient adaptive lattice structure to determine linear predictive coefficients and error coefficients corresponding to said digitized spread spectrum signal;

~~discarding said linear predictive coefficients~~ providing said error coefficients to a synthesis filter; and

employing said synthesis filter using said error coefficients to recover information said transmitted data component from in the said received spread spectrum signal, based on said error coefficients and not based on said linear predictive coefficients.

31. (Currently Amended) A signal filtering method ~~for filtering periodic or quasi-periodic signals in a spread spectrum signal,~~ comprising:

receiving a spread spectrum signal, the spread spectrum signal comprising a transmitted data component and a periodic or quasi-periodic interference component;

digitizing the received spread spectrum signal;

determining, using a linear predictive coding filter, linear predictive coefficients and error coefficients corresponding to the digitized spread spectrum signal; [[and]]

providing the error coefficients to a synthesis filter; and

employing the synthesis filter to recover the transmitted data component from the received spread spectrum signal, based on the provided error coefficients and not based on the linear predictive coefficients, such that the periodic or quasi-periodic interference component is filtered out ~~processing the received spread spectrum signal using the determined error coefficients, but not the determined linear predictive coefficients, to recover information contained in the received spread spectrum signal.~~

32. (New) A receiver comprising:

antenna circuitry for receiving a spread spectrum signal that comprises a transmitted data component and a periodic or quasi-periodic interference component;

an analog-to-digital converter configured to digitize the spread spectrum signal received by the antenna circuitry; and

processing circuitry that is configured to a) determine linear predictive coefficients and error coefficients corresponding to the digitized spread spectrum signal; b) provide the error coefficients to a synthesis filter; and c) recover, with the synthesis filter, the transmitted data component in the digitized spread spectrum signal, based on the provided error coefficients, and not based on the linear predictive coefficients.

33. (New) The receiver of claim 32, wherein the processing circuitry comprises a linear predictive coding filter that determines the linear predictive coefficients and the error coefficients.

34. (New) The receiver of claim 32, wherein the antenna circuitry is configured to receive a spread spectrum signal that complies with IEEE 802.11(b).

35. (New) The receiver of claim 32, wherein the antenna circuitry is configured to receive a spread spectrum signal that complies with Bluetooth specifications.
36. (New) The receiver of claim 32, wherein the antenna circuitry is configured to receive a CDMA spread spectrum signal.
37. (New) The receiver of claim 32, wherein the antenna circuitry is configured to receive a direct-sequence spread spectrum signal.
38. (New) The receiver of claim 32, wherein the antenna circuitry is configured to receive a frequency-hopping spread spectrum signal.
39. (New) The receiver of claim 32, wherein the processing circuitry is configured to filter out the periodic or quasi-periodic interference component from the received spread spectrum signal.